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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS 3	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS 4	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS 5	MAR 31	LPCI now available as a replacement to LDPCI
NEWS 6	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 7	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 8	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 9	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 10	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 11	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 12	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 13	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 14	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 15	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 16	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 17	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 18	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 19	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 20	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 21	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 22	JUL 28	CA/CAplus patent coverage enhanced
NEWS 23	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 24	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25	JUL 28	STN Viewer performance improved
NEWS 26	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced

Updated Search

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 NEWS 27  AUG 13  CA/CAplus enhanced with printed Chemical Abstracts
                  page images from 1967-1998
 NEWS 28  AUG 15  CAOLD to be discontinued on December 31, 2008
 NEWS 29  AUG 15  CAplus currency for Korean patents enhanced

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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DICTIONARY FILE UPDATES:  19 AUG 2008  HIGHEST RN 1042061-07-3

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
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Updated Search

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Uploading C:\Documents and Settings\brobinson1\My Documents\aerggg.str

L1      STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 17:33:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       38 TO ITERATE

100.0% PROCESSED       38 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:          391 TO     1129
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:33:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      702 TO ITERATE

100.0% PROCESSED      702 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L3            1 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   182.96     183.17

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FILE COVERS 1907 - 20 Aug 2008  VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008  (20080819/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.
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Updated Search

10551430

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This file contains CAS Registry Numbers for easy and accurate substance identification.

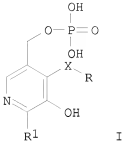
=> s l3
L4 1 L3

=> d l4, ibib abs hitstr, 1

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:875058 HCAPLUS
DOCUMENT NUMBER: 139:350581
TITLE: Preparation of pyridoxal phosphate derivatives for treating or preventing viral infections and associated diseases
INVENTOR(S): Diana, Guy D.; Bailey, Thomas R.; Young, Dorothy C.; Chunduru, Srinivas K.
PATENT ASSIGNEE(S): Viropharma Incorporated, USA
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003090674	A2	20031106	WO 2003-US12192	20030423
WO 2003090674	A3	20040701		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003237088	A1	20031110	AU 2003-237088	20030423
US 20050288258	A1	20051229	US 2005-511430	20050818
PRIORITY APPLN. INFO.:			US 2002-374740P P	20020423
			WO 2003-US12192 W	20030423

OTHER SOURCE(S): MARPAT 139:350581
GI



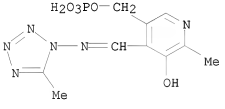
I

AB Pyridoxal derivs. I [X = CH:N, (un)substituted CH:CH; R = (un)substituted alkyl, aryl, aralkyl, heterocyclic, NH2; R1 = (un)substituted alkyl] were prepared for use as inhibitors of viruses of the Flaviviridae family (no data). Thus, pyridoxal phosphate was treated with 2-aminonaphthalene to give I [X = CH:N, R = 2-naphthyl, R1 = Me].

IT 619315-29-6P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridoxal phosphate derivs. for treating or preventing viral infections and associated diseases)

RN 619315-29-6 HCAPLUS

CN 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-[[(5-methyl-1H-tetrazol-1-yl)imino]methyl]-, α-(dihydrogen phosphate) (9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.14	191.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

10551430

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGistRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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=> d his

     (FILE 'HOME' ENTERED AT 17:26:49 ON 20 AUG 2008)

     FILE 'REGISTRY' ENTERED AT 17:27:05 ON 20 AUG 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3            1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 17:33:35 ON 20 AUG 2008
L4            1 S L3

     FILE 'CAOLD' ENTERED AT 17:34:16 ON 20 AUG 2008

=> s l3
L5            0 L3

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.46     191.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -0.80

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STRUCTURE FILE UPDATES:   19 AUG 2008  HIGHEST RN 1042061-07-3
DICTIONARY FILE UPDATES:  19 AUG 2008  HIGHEST RN 1042061-07-3

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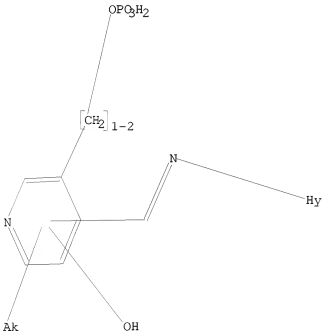
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aaaka.str

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l6'
MISMATCHED QUOTE 'L6''
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

=> s l6
SAMPLE SEARCH INITIATED 17:37:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 99 TO ITERATE

10551430

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100.0% PROCESSED       99 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:          1384 TO     2576
PROJECTED ANSWERS:                1 TO       80

L7            1 SEA SSS SAM L6

=> s l6 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:37:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1874 TO ITERATE

100.0% PROCESSED     1874 ITERATIONS                              7 ANSWERS
SEARCH TIME: 00.00.01

L8            7 SEA SSS FUL L6

=> d his

     (FILE 'HOME' ENTERED AT 17:26:49 ON 20 AUG 2008)

     FILE 'REGISTRY' ENTERED AT 17:27:05 ON 20 AUG 2008
L1               STRUCTURE UPLOADED
L2            0 S L1
L3            1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 17:33:35 ON 20 AUG 2008
L4            1 S L3

     FILE 'CAOLD' ENTERED AT 17:34:16 ON 20 AUG 2008
L5            0 S L3

     FILE 'REGISTRY' ENTERED AT 17:34:22 ON 20 AUG 2008
L6               STRUCTURE UPLOADED
L7            1 S L6
L8            7 S L6 FULL

=> s l8 not l3
L9            6 L8 NOT L3

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    180.20     371.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                      0.00      -0.80

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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

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reclassification data for the second quarter of 2008.

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=> s l9
L10           6 L9

=> s l10 and diana, g?/au
            162 DIANA, G?/AU
L11           0 L10 AND DIANA, G?/AU

=> s l10 and bailey, t?/au
            551 BAILEY, T?/AU
L12           0 L10 AND BAILEY, T?/AU

=> s l10 and young, d?/au
           4463 YOUNG, D?/AU
L13           0 L10 AND YOUNG, D?/AU

=> d l10, ibib abs hitstr, 1-6

L10  ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2007:764445  HCAPLUS
DOCUMENT NUMBER:          147:316956
TITLE:                    Molecular Architecture of DesI: A Key Enzyme in the
                          Biosynthesis of Desosamine
AUTHOR(S):                Burgie, E. Sethe; Holden, Hazel M.
CORPORATE SOURCE:         Department of Biochemistry, University of Wisconsin,
                          Madison, WI, 53706, USA
SOURCE:                   Biochemistry (2007), 46(31), 8999-9006
                          CODEN: BICHAW; ISSN: 0006-2960
PUBLISHER:                American Chemical Society
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   Desosamine is a 3-(dimethylamino)-3,4,6-trideoxyhexose found, for example,
     in such macrolide antibiotics as erthyromycin, azithromycin, and
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clarithromycin. The efficacies of these macrolide antibiotics are markedly reduced in the absence of desosamine. In the bacterium Streptomyces venezuelae, six enzymes are required for the production of dTDP-desosamine. The focus of this X-ray crystallog. anal. is the third enzyme in the pathway, a PLP-dependent aminotransferase referred to as DesI. The structure of DesI was solved in complex with its product, dTDP-4-amino-4,6-dideoxyglucose, to a nominal resolution of 2.1 Å. Each subunit of the dimeric enzyme contains 12 α-helixes and 14 β-strands. Three cis-peptides are observed in each subunit, Phe 330, Pro 332, and Pro 339. The two active sites of the enzyme are located in clefts at the subunit/subunit interface. Electron d. corresponding to the bound product clearly demonstrates a covalent bond between the amino group of the product and C-4' of the PLP cofactor. Interestingly, there are no hydrogen-bonding interactions between the protein and the dideoxyglucosyl group of the product (within 3.2 Å). The only other sugar-modifying aminotransferase whose structure is known in the presence of product is PseC from Helicobacter pylori. This enzyme, as opposed to DesI, catalyzes amino transfer to the axial position of the sugar. A superposition of the two active sites for these proteins reveals that the major differences in ligand binding occur in the orientations of the deoxyglucosyl and phosphoryl groups. Indeed, the nearly 180° difference in hexose orientation explains the equatorial vs. axial amino transfer exhibited by DesI and PseC, resp.

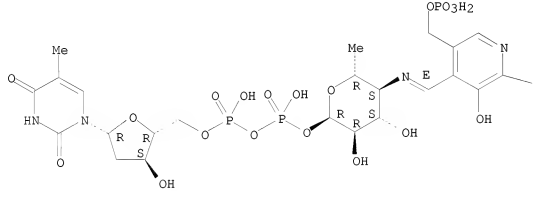
IT 947753-02-8
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(external aldimine intermediate; structural study indicates orientation of substrate hexose ring promotes equatorial amino transfer by DesI from S. venezuelae)

RN 947753-02-8 HCAPLUS

CN Thymidine 5'-(trihydrogen diphosphate), P'-[4,6-dideoxy-4-[(E)-[[3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinyl]methylene]amino]-α-D-glucopyranosyl] ester (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



Me

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:123824 HCAPLUS
DOCUMENT NUMBER: 116:123824
ORIGINAL REFERENCE NO.: 116:20820h,20821a
TITLE: Mechanistic and stereochemical studies of a unique dehydration catalyzed by CDP-4-keto-6-deoxy-D-glucose-3-dehydrase: a pyridoxamine 5'-phosphate dependent enzyme isolated from Yersinia pseudotuberculosis
AUTHOR(S): Weigel, Theresa M.; Miller, Vaughn P.; Liu, Hung Wen
CORPORATE SOURCE: Dep. Chem., Univ. Minnesota, Minneapolis, MN, 55455, USA
SOURCE: Biochemistry (1992), 31(7), 2140-7
CODEN: BICHAW; ISSN: 0006-2960
DOCUMENT TYPE: Journal
LANGUAGE: English

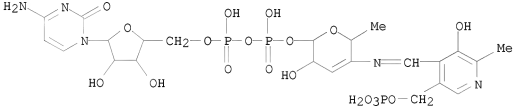
AB CDP-4-keto-6-deoxy-D-glucose 3-dehydrase (E1) purified from Y. pseudotuberculosis is a pyridoxamine 5'-phosphate (PMP)-dependent enzyme which catalyzes the C-O bond cleavage at C-3 of a CDP-4-keto-6-deoxy-D-glucose substrate, a key step in the formation of 3,6-dideoxyhexoses. Since enzyme E1 utilizes the PMP cofactor in a unique manner, it is essential to establish its role in E1 catalysis. When an incubation was conducted in [18O]H2O, incorporation of 18O into positions C-3 and C-4 of the recovered substrate was observed This result not only provided the evidence necessary to reveal the reversibility of E1 catalysis but also lent credence to the formation of a Δ3,4-glucoseen intermediate. In view of E1 catalysis being initiated by a C-4' deprotonation of the PMP-substrate complex the stereochem. course of this step was examined using chemical synthesized (4'S)- and (4'R)-[4'-3H]PMP as probes. The results clearly demonstrated that the stereochem. of this deprotonation of pro-S specific, which was in agreement with the stereochem. consistency found with other vitamin B6 phosphate-dependent enzymes. The fact that reprotonation at C-4' of the PMP-Δ3,4-glucoseen complex in the reverse direction of E1 catalysis was also found to be pro-S-stereospecific strongly suggested that enzyme E1, like most of its counterparts, has the si face of its cofactor-substrate complex exposed to solvent and accessible to active-site catalytic groups as well. These stereochem. studies have given support to the role postulated for the PMP cofactor in the proposed mechanism, and they also suggest that the active site of E1 may share features similar to other pyridoxal 5'-phosphate/PMP-linked enzymes which control the orientation of the cofactor-substrate complex. It is worth noting that enzyme E1 cannot finish C-3 deoxygenation without CDP-6-deoxy-Δ3,4-glucoseen reductase (E3) which reduces the nascent E1 product, driving the equilibrium to

completion. Although chemical reducing reagents failed to trap the transient E1 product, 2 well-known electron shuttle proteins were able to generate a small amount of the dideoxyhexose product. The fact that other electron-transfer reductases can act as substitutes for E3 provided compelling evidence supporting the earlier notion that the E1 product is reduced by a stepwise 1e-/1e- transfer mechanism. Thus, E1, despite its having evolved an unusual role for the PMP cofactor, has retained all the essential elements of catalysis common to other vitamin B6 phosphate-dependent enzymes. These results also support the hypothesis of H. C. Dunathan (1971) that this class of enzymes, regardless of its catalytic diversity, evolved from a common progenitor.

IT 139200-07-0
RL: BIOL (Biological study)
(formation and enzymic reduction of, CDP-ketodeoxyglucose dehydrase reaction mechanism in relation to)

RN 139200-07-0 HCAPLUS

CN Cytidine 5'-(trihydrogen diphosphate), P'-[3,4,6-trideoxy-4-[[[3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinyl]methylene]amino]-α-D-erythro-hex-3-enopyranosyl] ester (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:504349 HCAPLUS

DOCUMENT NUMBER: 91:104349

ORIGINAL REFERENCE NO.: 91:16817a,16820a

TITLE: Vitamin B6 antagonists of natural origin

AUTHOR(S): Klosterman, Harold J.

CORPORATE SOURCE: Dep. Biochem., North Dakota State Univ., Fargo, ND, USA

SOURCE: Methods in Enzymology (1979), 62(Vitam. Coenzymes, Part D), 483-95
CODEN: MENZAU; ISSN: 0076-6879

DOCUMENT TYPE: Journal

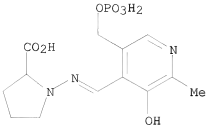
LANGUAGE: English

AB Methods for the preparation of some naturally occurring carbonyl reagents and their phosphopyridoxylidene derivs. are presented along with examples of the use of the carbonyl reagents in the study of enzymes.

IT 71299-97-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for apoaspartate aminotransferase inhibition studies)

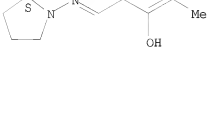
RN 71299-97-3 HCAPLUS

CN Proline, 1-[[[3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinyl]methylene]amino]- (9CI) (CA INDEX NAME)

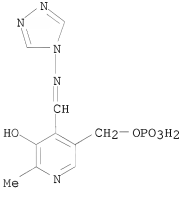


L10 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:564943 HCAPLUS
DOCUMENT NUMBER: 87:164943
ORIGINAL REFERENCE NO.: 87:26055a,26058a
TITLE: Fate of 1-aminoproline and urinary excretion of 1-aminoprolyl hydrazone of pyridoxal in rats
AUTHOR(S): Tsuji, Hideaki; Moritoki, Keiko; Ogawa, Tadashi; Sasaoka, Kei
CORPORATE SOURCE: Sch. Med., Tokushima Univ., Tokushima, Japan
SOURCE: Agricultural and Biological Chemistry (1977), 41(8), 1413-17
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 1-Aminoproline-U-14C was administered to rats i.p. The radioactivity was distributed in all the tissues examined Among them, kidney, lung, liver, and spleen had high sp. activity. The radioactivity in the tissues and blood decreased rapidly as a function of time, except in brain. About 80% of the radioactivity administered was excreted in urine within 24 h. Besides intact 1-aminoproline, several radioactive compds. were detected in the urine sample, and one of them was identified as 1-aminoprolyl hydrazone of pyridoxal.
IT 64501-80-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 64501-80-0 HCAPLUS
CN L-Proline, 1-[[[3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinyl]methylene]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L10 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:440127 HCAPLUS
DOCUMENT NUMBER: 65:40127
ORIGINAL REFERENCE NO.: 65:7529a-b
TITLE: Multiplicity of cyclic amino acid decarboxylases
AUTHOR(S): Gonnard, Pierre; Camier, Maryse
CORPORATE SOURCE: Lab. Chem. Biol., Nanterre, Fr.
SOURCE: Bulletin de la Societe de Chimie Biologique (1966), 48(2), 225-38
CODEN: BSCIA3; ISSN: 0037-9042
DOCUMENT TYPE: Journal
LANGUAGE: French
AB The Union Internatl. of Biochem. recognizes 5 cyclic amino acid decarboxylases: L-tyrosine carboxy-lyase, 3,4-dihydroxy-L-phenylalanine carboxy-lyase (dopa decarboxylase (I)), L-tryptophan carboxy-lyase, 5-hydroxy-L-tryptophan carboxy-lyase (5-HT-decarboxylase (II)), and L-histidine carboxy-lyase. Some authors claim that I and II are the same enzyme. A study by the present authors of the action upon different decarboxylases of hydrazone, oxime, semicarbazone, and iminotriazole of phospho-5'-pyridoxal tends to confirm the view that I and II are the same enzyme; but some differences are apparent. Thus, the inhibition by hydroxylamine of II but not I can be reversed by addition of pyridoxal. Pyridoxal phosphate hydrazone of α-methylhydrazino-dopa inhibits the decarboxylation of 5-HT at every concentration whereas it enhances decarboxylation of dopa at low concns. and inhibits it at high concns.
IT 13184-01-5, 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-(N-4H-1,2,4-triazol-4-ylformimidoyl)-, 3-(dihydrogen phosphate)
(amino acid decarboxylase response to)
RN 13184-01-5 HCAPLUS
CN 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-(N-4H-1,2,4-triazol-4-ylformimidoyl)-, 3-(dihydrogen phosphate) (7CI, 8CI) (CA INDEX NAME)



L10 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1964:69598 HCAPLUS
DOCUMENT NUMBER: 60:69598
ORIGINAL REFERENCE NO.: 60:12304a-c
TITLE: Action of phospho-5'-pyridoximinotriazole on pyridoxal enzymes
AUTHOR(S): Gonnard, Pierre; Duhault, Jacques; Camier, Maryse;

10551430

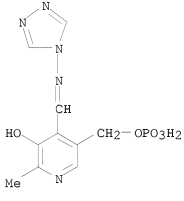
Nguyen-Philippon, Claude; Boigne, Nicole
CORPORATE SOURCE: Nouvelle Fac. Med., Paris
SOURCE: Biochimica et Biophysica Acta, Specialized Section on Enzymological Subjects (1964), 81(3), 548-59
CODEN: BBASD9; ISSN: 0926-6569
DOCUMENT TYPE: Journal
LANGUAGE: French

AB Phospho-5'-pyridoximinotriazole behaves as cofactor of pyridoxal enzymes. It is more active than pyridoxal phosphate itself towards glutamate decarboxylase, dopa decarboxylase, and kynurenine hydrolase, and less active towards aspartic-glutamic transaminase. This compound was prepared and selected on account of its structure which is close to Schiff bases formed between amino acids substrates and pyridoxal phosphate, with the object of searching for a possible trans-Schiffization which could explain its coenzymic behavior by liberation of pyridoxal phosphate. The comparison of its activity with that of pyridoxal phosphate and the kinetics of this activity are not in favor of a hydrolysis. Some hypotheses are discussed for the purpose of finding an explanation to the activation of the pyridoxal enzymes by the imine.

IT 13184-01-5, 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-(N-4H-1,2,4-triazol-4-ylformimidoyl)-, 3-(dihydrogen phosphate)
(effect on enzymes requiring pyridoxal 5-phosphate)

RN 13184-01-5 HCAPLUS

CN 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-(N-4H-1,2,4-triazol-4-ylformimidoyl)-, 3-(dihydrogen phosphate) (7CI, 8CI) (CA INDEX NAME)



=> file caold

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CA SUBSCRIBER PRICE	-4.80	-5.60

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Updated Search

10551430

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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=> d his

     (FILE 'HOME' ENTERED AT 17:26:49 ON 20 AUG 2008)

     FILE 'REGISTRY' ENTERED AT 17:27:05 ON 20 AUG 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 17:33:35 ON 20 AUG 2008
L4           1 S L3

     FILE 'CAOLD' ENTERED AT 17:34:16 ON 20 AUG 2008
L5           0 S L3

     FILE 'REGISTRY' ENTERED AT 17:34:22 ON 20 AUG 2008
L6             STRUCTURE UPLOADED
L7           1 S L6
L8           7 S L6 FULL
L9           6 S L8 NOT L3

     FILE 'HCAPLUS' ENTERED AT 17:37:35 ON 20 AUG 2008
L10          6 S L9
L11          0 S L10 AND DIANA, G?/AU
L12          0 S L10 AND BAILEY, T?/AU
L13          0 S L10 AND YOUNG, D?/AU

     FILE 'CAOLD' ENTERED AT 17:39:15 ON 20 AUG 2008

=> s l9
L14          2 L9

=> d l14, all, 1-2

L14  ANSWER 1 OF 2  CAOLD  COPYRIGHT 2008 ACS on STN
AN   CA65:7529a  CAOLD
TI   multiplicity of cyclic amino acid decarboxylases
AU   Gonnard, Pierre; Camier, M.
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10551430

IT 634-25-3 634-27-5 13184-01-5 13184-02-6 13532-05-3

L14 ANSWER 2 OF 2 CAOLD COPYRIGHT 2008 ACS on STN
AN CA60:12304a CAOLD
TI action of phospho-5-pyridoximinotriazole on pyridoxal enzymes
AU Gonnard, Pierre; Duhault, J.; Camier, M.; Nguyen-Philippon, C.; Boigne, N.
IT 13184-01-5

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.84	414.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.60

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=> S 13184-01-5/RN

L15 1 13184-01-5/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L15 SQIDE 1-

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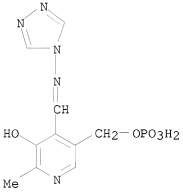
10551430

THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 13184-01-5 REGISTRY
CN 3-Pyridinemethanol, 5-hydroxy-6-methyl-4-(N-4H-1,2,4-triazol-4-ylformimidoyl)-, 3-(dihydrogen phosphate) (7CI, 8CI) (CA INDEX NAME)
MF C10 H12 N5 O5 P
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

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